

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
15 November 2001 (15.11.2001)

PCT

(10) International Publication Number  
**WO 01/087001 A3**

(51) International Patent Classification<sup>7</sup>: **H04R 25/00**

(21) International Application Number: PCT/CH01/00463

(22) International Filing Date: 26 July 2001 (26.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US):  
**PHONAK AG** [CH/CH]; Laubisrütistrasse 28, CH-8712  
Stäfa (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HESSEL, Hans**  
[DE/CH]; Cholibuck 12, CH-8121 Benglen (CH). **WID-  
MER, Christoph** [CH/CH]; Rebacher 13, CH-8342  
Wernetshausen (CH).

(74) Agent: **TROESCH, Jacques**; Patentanwaltsbüro, Troesch  
Scheidegger Werner AG, Schwänthenmos 14, CH-8126 Zu-  
mikon (CH).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,  
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,  
TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

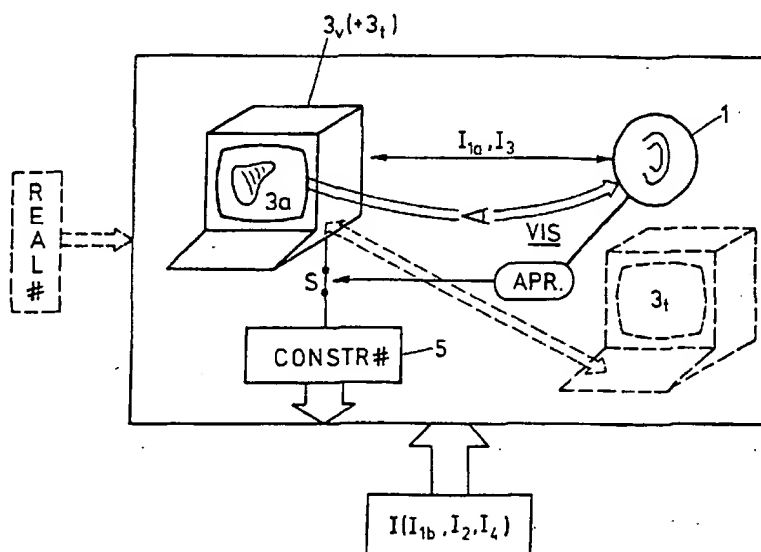
(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,  
TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

[Continued on next page]

(54) Title: METHOD FOR MANUFACTURING HEARING DEVICES



(57) Abstract: A hearing aid device for an individual is manufactured in that information about individual's audio needs ( $I_{1a}$ ,  $I_{1b}$ ), information about three-dimensional shape of the application area of the hearing device at the individual ( $I_2$ ), information about additional individual not audio needs ( $I_3$ ) and information ( $I_4$ ) about technical feasibility of hearing devices is input to a computer system ( $3_v$ ) and the concept of the hearing device is three-dimensionally visualized to the individual (1). The concept as visualized is amended controlled by the individual, and the data as approved by the individual and defining for the concept are frozen for subsequent realization of the hearing device hardware.

WO 01/087001 A3



— upon request of the applicant, before the expiration of the time limit referred to in Article 21(2)(a)

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(88) Date of publication of the international search report:**  
19 September 2002

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 01/00463

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04R25/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R G06F A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01 52737 A (AUDIA TECHNOLOGY INC) 26 July 2001 (2001-07-26)	1-4,6,7, 9-33, 38-40
A	page 4, line 8-19 page 6, line 4 -page 8, line 25 page 12, line 16 -page 24, line 2	5,8
Y	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 08, 29 August 1997 (1997-08-29) - & JP 09 103000 A (RION CO LTD), 15 April 1997 (1997-04-15)	1-4,6,7, 9-33, 38-40
A	abstract	34-37
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

20 June 2002

Date of mailing of the international search report

26/06/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Zanti, P

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH 01/00463

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 167 138 A (SHENNIB ADNAN)  26 December 2000 (2000-12-26)  column 1, line 16-19  column 9, line 13-16  column 12, line 50 -column 15, line 49  column 20, line 44 -column 23, line 20  column 24, line 17 -column 25, line 2  column 26, line 65 -column 27, line 22  column 28, line 32-52</p>	1-40

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CH 01/00463

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0152737	A	26-07-2001	US 6322521 B1	27-11-2001
			AU 3111901 A	31-07-2001
			WO 0152737 A1	26-07-2001
JP 09103000	A	15-04-1997	JP 2837649 B2	16-12-1998
US 6167138	A	26-12-2000	US 5825894 A	20-10-1998
			US 5923764 A	13-07-1999
			AU 724786 B2	28-09-2000
			AU 6723696 A	14-07-1997
			BR 9612098 A	23-02-1999
			CA 2235067 A1	26-06-1997
			CN 1260104 A	12-07-2000
			EP 0868830 A1	07-10-1998
			JP 2000504948 T	25-04-2000
			PL 329644 A1	12-04-1999
			WO 9723117 A1	26-06-1997

**this Page Blank (uspto)**